

Sequence Listing

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 Met Gly Ile Ser Gly Gln Leu Thr Trp Thr Arg Leu Pro Gln Gly Phe
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 Lys Asn Ser Pro Thr Leu Phe Asp Glu Ala Leu His Arg Asp Leu Ala
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 Asp Phe Arg Ile Gln His Pro Asp Leu Ile Leu Leu Gln Tyr Val Asp
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 Asp Leu Leu Leu Ala Ala Thr Ser Glu Leu Asp Cys Gln Gln Gly Thr
 225 230 235 240
 Arg Ala Leu Leu Gln Thr Leu Gly Asn Leu Gly Tyr Arg Ala Ser Ala
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| | | 260 | | | | | | 265 | | | | | 270 | | | | | | |
| Leu | Lys | Glu | Gly | Gln | Arg | Trp | Leu | Thr | Glu | Ala | Arg | Lys | Glu | Thr | Val | | | | |
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| Met | Gly | Gln | Pro | Thr | Pro | Lys | Thr | Pro | Arg | Gln | Leu | Arg | Glu | Phe | Leu | | | | |
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| Gly | Thr | Ala | Gly | Phe | Cys | Arg | Leu | Trp | Ile | Pro | Gly | Phe | Ala | Glu | Met | | | | |
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| Ala | Ala | Pro | Leu | Tyr | Pro | Leu | Thr | Lys | Thr | Gly | Thr | Leu | Phe | Asn | Trp | | | | |
| | | | | 325 | | | | | | 330 | | | | | 335 | | | | |
| Gly | Pro | Asp | Gln | Gln | Lys | Ala | Tyr | Gln | Glu | Ile | Lys | Gln | Ala | Leu | Leu | | | | |
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| Thr | Ala | Pro | Ala | Leu | Gly | Leu | Pro | Asp | Leu | Thr | Lys | Pro | Phe | Glu | Leu | | | | |
| | | 355 | | | | | | 360 | | | | | 365 | | | | | | |
| Phe | Val | Asp | Glu | Lys | Gln | Gly | Tyr | Ala | Lys | Gly | Val | Leu | Thr | Gln | Lys | | | | |
| | | 370 | | | | 375 | | | | | 380 | | | | | | | | |
| Leu | Gly | Pro | Trp | Arg | Arg | Pro | Val | Ala | Tyr | Leu | Ser | Lys | Lys | Leu | Asp | | | | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | | | | |
| Pro | Val | Ala | Ala | Gly | Trp | Pro | Pro | Cys | Leu | Arg | Met | Val | Ala | Ala | Ile | | | | |
| | | | | 405 | | | | | 410 | | | | | | 415 | | | | |
| Ala | Val | Leu | Thr | Lys | Asp | Ala | Gly | Lys | Leu | Thr | Met | Gly | Gln | Pro | Leu | | | | |
| | | | 420 | | | | | 425 | | | | | 430 | | | | | | |
| Val | Ile | Leu | Ala | Pro | His | Ala | Val | Glu | Ala | Leu | Val | Lys | Gln | Pro | Pro | | | | |
| | | 435 | | | | | | 440 | | | | | 445 | | | | | | |
| Asp | Arg | Trp | Leu | Ser | Asn | Ala | Arg | Met | Thr | His | Tyr | Gln | Ala | Leu | Leu | | | | |
| | | 450 | | | | 455 | | | | | 460 | | | | | | | | |
| Leu | Asp | Thr | Asp | Arg | Val | Gln | Phe | Gly | Pro | Val | Val | Ala | Leu | Asn | Pro | | | | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | | | | |
| Ala | Thr | Leu | Leu | Pro | Leu | Pro | Glu | Glu | Gly | Leu | Gln | His | Asn | Cys | Leu | | | | |
| | | | | 485 | | | | | 490 | | | | | 495 | | | | | |
| Asp | Ile | Leu | Ala | Glu | Ala | His | Gly | Thr | Arg | Pro | Asp | Leu | Thr | Asp | Gln | | | | |
| | | 500 | | | | | | 505 | | | | | 510 | | | | | | |
| Pro | Leu | Pro | Asp | Ala | Asp | His | Thr | Trp | Tyr | Thr | Asn | Gly | Ser | Ser | Leu | | | | |
| | | 515 | | | | | | 520 | | | | | 525 | | | | | | |
| Leu | Gln | Glu | Gly | Gln | Arg | Lys | Ala | Gly | Ala | Ala | Val | Thr | Thr | Glu | Thr | | | | |
| | | 530 | | | | 535 | | | | | 540 | | | | | | | | |
| Glu | Val | Ile | Trp | Ala | Lys | Ala | Leu | Pro | Ala | Gly | Thr | Ser | Ala | Gln | Arg | | | | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | | | | |
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| | | | | 565 | | | | | 570 | | | | | 575 | | | | | |
| Lys | Leu | Asn | Val | Tyr | Thr | Asp | Ser | Arg | Tyr | Ala | Phe | Ala | Thr | Ala | His | | | | |
| | | 580 | | | | | | 585 | | | | | 590 | | | | | | |
| Ile | His | Gly | Glu | Ile | Tyr | Arg | Arg | Arg | Gly | Leu | Leu | Thr | Ser | Glu | Gly | | | | |
| | | 595 | | | | 600 | | | | | | 605 | | | | | | | |
| Lys | Glu | Ile | Lys | Asn | Lys | Asp | Glu | Ile | Leu | Ala | Leu | Leu | Lys | Ala | Leu | | | | |
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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| 625 | | | | | 630 | | | | | 635 | | | | | 640 |
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| acgcgccgtc | gcaaattgtc | gcggcgatta | aatctcgcg | cgatcaactg | ggtgccagcg | 360 |
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| ttctcgcgca | acgcgtcagt | gggctgatca | ttaactatcc | gctggatgac | caggatgcc | 480 |
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| cacccatcaa | cagtattatt | ttctcccatg | aagacggtag | gcgactgggc | gtggagcatc | 600 |
| tggtcgcat | gggtcaccag | caaatcgcg | tgtagcggg | cccattaagt | tctgtctcgg | 660 |
| cgcgctctcg | tctggctggc | tggcataaat | atctcactcg | caatcaaatt | cagccgatag | 720 |
| cggaacggga | aggcgactgg | agtgccatgt | ccggttttca | acaaaccatg | caaagtctga | 780 |
| atgaggggcat | cgttcccat | gcgatgctgg | ttgccaacga | tcagatggcg | ctgggcgcaa | 840 |
| tgcgcgccat | taccgagtcc | gggctgcgcg | ttggtgcgga | tatctcggt | gtgggatacg | 900 |
| acgataccga | agacagctca | tgttatatcc | cgccgttaac | caccatcaaa | caggattttc | 960 |
| gcctgctggg | gcaaaccagc | gtggaccgct | tgtctgcaact | ctctcagggc | caggcggtga | 1020 |
| agggcaatca | gctgttgccc | gtctcactgg | tgaagaagaa | aaccaccctg | gcgccaata | 1080 |
| cgcaaaccgc | ctctccccgc | gcgttggcgc | attcattaat | gcagctggca | cgacagggtt | 1140 |
| cccgactgga | aagcgggcag | tgagcgcaac | gcaattaatg | tgagttagct | cactcattag | 1200 |
| gcacaattct | catgtttgac | agcttatcat | cgactgcacg | gtgcaccaat | gcttctggcg | 1260 |
| tcaggcagcc | atcggaagct | gtggtatggc | tgtgcaggtc | gtaaatcact | gcataattcg | 1320 |
| tgctcgctcaa | ggcgactcc | cgttctggat | aatgtttttt | gcgccgacat | cataacggtt | 1380 |
| ctggcaata | ttctgaaatg | agctgttgac | aattaatcat | cggctcgtat | aatgtgtgga | 1440 |
| attgtgagcg | gataacaatt | tgaattctta | agatttgtga | ggggataaca | atttcacaca | 1500 |
| ggaaacagaa | tatgacccta | aatatagaag | atgagcatcg | gctacatgag | acctcaaaag | 1560 |
| agccagatgt | ttctctaggg | tccacatggc | tgtctgattt | tcctcaggcc | tgggcggaaa | 1620 |
| ccgggggcat | gggactggca | gttcgccaaag | ctcctctgat | catacctctg | aaagcaacct | 1680 |
| ctacccccgt | gtccataaaa | caatacccca | tgtcacaaga | agccagactg | gggatcaagc | 1740 |
| cccacataca | gagactgttg | gacaacggga | tcctggtacc | ctgccagtcc | ccctggaaca | 1800 |

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| cgccccctgct | acccgttaag | aaaccagga | ctaatagatta | taggcctgtc | caggatctga | 1860 |
| gagaagtcaa | caagcgggtg | gaagacatcc | acccaccgt | gccaaccct | tacaacctct | 1920 |
| tgagcgggct | cccaccgtcc | caccagtgg | acactgtgct | tgatttaaag | gatgcctttt | 1980 |
| tctgcctgag | actccacccc | accagtcagc | ctctcttcgc | ctttgagtgg | agagatccag | 2040 |
| agatgggaat | ctcaggacaa | ttgacctgga | ccagactccc | acagggtttc | aaaaacagtc | 2100 |
| ccacctgttt | tgatgaggca | ctgcacagag | acctagcaga | cttccggatc | cagcaccag | 2160 |
| acttgatcct | gctacagtac | gtggatgact | tactgtctggc | cgccacttct | gagctagact | 2220 |
| gccaacaagg | tactcgggcc | ctgttacaaa | ccctagggaa | cctcgggtat | cgggcctcgg | 2280 |
| ccaagaaagc | ccaaatttgc | cagaaacagg | tcaagtatct | ggggtatctt | ctaaaagagg | 2340 |
| gtcagagatg | gctgactgag | gccagaaaag | agactgtgat | ggggcagcct | actccgaaga | 2400 |
| cccctcgaca | actaaggag | ttcctaggg | cggcaggctt | ctgtcgcctc | tgatccctg | 2460 |
| ggtttgcaga | aatggcagcc | cccttgtacc | ctctcaccaa | aacggggact | ctgtttaatt | 2520 |
| ggggcccaga | ccaacaaaag | gcctatcaag | aatcaagca | agctcttcta | actgccccag | 2580 |
| ccctgggggt | gccagatttg | actaagccct | ttgaactctt | tgtcgacgag | aagcagggt | 2640 |
| acgccaagg | tgtcctaacg | caaaaactgg | gaccttggcg | tcggccgggtg | gcctacctgt | 2700 |
| ccaaaaagct | agaccagta | gcagctgggt | ggcccccttg | cctacggatg | gtagcagcca | 2760 |
| ttgccgtact | gacaaaggat | gcaggcaagc | taaccatggg | acagccacta | gtcattctgg | 2820 |
| cccccatgc | agtagaggca | ctagtcaaac | aacccccga | ccgttggtt | tccaacgccc | 2880 |
| ggatgactca | ctatcaggcc | ttgcttttgg | acacggaccg | ggtccagttc | ggaccgggtg | 2940 |
| tagccctgaa | cccggctacg | ctgctccac | tgcctgagga | agggtctgaa | cacaactgcc | 3000 |
| ttgatatcct | ggccgaagcc | cacggaaccc | gaccgcacct | aacggaccag | ccgtctccag | 3060 |
| acgccgacca | cacctggtac | acgaatggaa | gcagtctctt | acaagaggga | cagcgtaagg | 3120 |
| cgggagctgc | ggtgaccacc | gagaccgagg | taatctgggc | taaagccctg | ccagccggga | 3180 |
| catccgctca | gcgggctgaa | ctgatagcac | tcaccaggc | cctaaagatg | gcagaaggta | 3240 |
| agaagctaaa | tgtttatact | gatagccgtt | atgcttttgc | tactgccc | atccatggag | 3300 |
| aaatatacag | aaggcgtggg | ttgctcacat | cagaaggcaa | agagatcaaa | aataaagacg | 3360 |
| agatcttggc | cctactaaaa | gccctcttct | tgccccaaag | acttagcata | atccattgtc | 3420 |
| caggacatca | aaagggacac | agcgccgagg | ctagaggcaa | ccggatggct | gaccaagcgg | 3480 |
| cccgaaggc | agccatcaca | gagactccag | acacctctac | cctcctccat | caccatcacc | 3540 |
| atcactagtc | tagagtcgac | ctgcaggcaa | gcttggcact | ggccgtcggt | ttacaacgtc | 3600 |
| gtgactggga | aaacctggc | gttaccaca | ttaatcgcct | tgcagcacat | ccccctttcg | 3660 |
| ccagctggcg | taatagcgaa | gaggcccgca | ccgatcgccc | ttccaacag | ttgcgcagcc | 3720 |
| tgaatggcga | atggcagctt | ggctgttttg | gcggatgaga | taagattttc | agcctgatac | 3780 |
| agattaaatc | agaacgcaga | agcggctctga | taaaacagaa | ttgcctggc | ggcagtagcg | 3840 |
| cgggtggccc | acctgacccc | atgccgaact | cagaagtga | acgccgtagc | gccgatggta | 3900 |
| gtgtggggtc | tccccatgcg | agagtaggga | actgccaggc | atcaaataaa | acgaaaggct | 3960 |
| cagtcgaaag | actgggcctt | tcgtttttatc | tgttggttgt | cggatgaacgc | tctcctgagt | 4020 |
| aggacaaaatc | cgccgggagc | ggatttgaac | gttgcgaaagc | aacggcccgg | agggtggcgg | 4080 |
| gcaggacgcc | cgccataaac | tgccaggcat | caaattaagc | agaaggccat | cctgacggat | 4140 |
| ggcctttttg | cgtttctaca | aactcttttt | gtttattttt | ctaaatacat | tcaaatatgt | 4200 |
| atccgctcat | gagacaataa | ccctgataaa | tgtttcaata | atattgaaaa | aggaagagta | 4260 |
| tgagtattca | acatttccgt | gtcgccctta | ttcccttttt | tgcggcattt | tgcttccctg | 4320 |
| tttttgctca | cccagaaacg | ctggtgaaag | taaaagatgc | tgaagatcag | ttgggtgcac | 4380 |
| gagtgggtta | catcgaactg | gatctcaaca | gcggtaagat | ccttgagagt | tttcgccccg | 4440 |
| aagaacgttc | tccaatgatg | agcactttta | aagttctgct | atgtggcgcg | gtattatccc | 4500 |

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|-------------|------------|------------|-------------|-------------|-------------|------|
| gtgttgacgc | cgggcaagag | caactcggtc | gccgcataca | ctattctcag | aatgacttgg | 4560 |
| ttgagtactc | accagtcaca | gaaaagcadc | ttacggatgg | catgacagta | agagaattat | 4620 |
| gcagtgctgc | cataaccatg | agtataaca | ctgcggccaa | cttacttctg | acaacgatcg | 4680 |
| gaggaccgaa | ggagctaacc | gcttttttgc | acaacatggg | ggatcatgta | actcgccttg | 4740 |
| atcggttgga | accggagctg | aatgaagcca | taccaaacga | cgagcgtgac | accacgatgc | 4800 |
| ctgtagcaat | ggcaacaacg | ttgcgcaaac | tattaactgg | cgaactactt | actctagctt | 4860 |
| cccggcaaca | attaatagac | tggatggagg | cggataaaagt | tgcaggacca | cttctgcgct | 4920 |
| cggcccttcc | ggctggctgg | tttattgctg | ataaatctgg | agccggtgag | cgtgggtctc | 4980 |
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| cgacggggag | tcaggcaact | atggatgaac | gaaatagaca | gatcgctgag | ataggtgcct | 5100 |
| cactgattaa | gcattggtaa | ctgtcagacc | aagtttactc | atatatactt | tagattgatt | 5160 |
| taccccggtt | gataatcaga | aaagcccca | aaacaggaag | attgtataag | caaataattta | 5220 |
| aattgtaaac | gttaatat | tgttaaaatt | cgcgttaa | ttttgttaa | tcagctcatt | 5280 |
| ttttaaccaa | taggccgaaa | tcggcaaaat | cccttataaa | tcaaaagaat | agcccagat | 5340 |
| aggggttgagt | gttggtccag | tttgaacaa | gagtcacta | ttaaagaacg | tggactccaa | 5400 |
| cgtcaaaggg | cgaaaaaccg | tctatcaggg | cgatggccca | ctacgtgaac | catcacccaa | 5460 |
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| ccgatttaga | gcttgacggg | gaaagccggc | gaacgtggcg | agaaaggaag | ggaagaaagc | 5580 |
| gaaaggagcg | ggcgctaggg | cgctggcaag | tgtagcggtc | acgctgcgcg | taaccaccac | 5640 |
| acccgccgcg | cttaatgcgc | cgctacaggg | cgcgtaaaag | gatctaggtg | aagatccttt | 5700 |
| ttgataatct | catgaccaa | atcccttaac | gtgagttttc | gttccactga | gcgtcagacc | 5760 |
| ccgtagaaaa | gatcaaagga | tcttcttgag | atcctttttt | tctgcgcgta | atctgctgct | 5820 |
| tgcaaacaaa | aaaaccaccg | ctaccagcgg | tggtttggtt | gccggatcaa | gagctaccaa | 5880 |
| ctctttttcc | gaaggtaact | ggcttcagca | gagcgcagat | accaaatact | gtccttctag | 5940 |
| tgtagccgta | gttaggccac | cacttcaaga | actctgtagc | accgcctaca | tacctcgctc | 6000 |
| tgctaatacct | gttaccagtg | gctgctgcca | gtggcgataa | gtcgtgtctt | accgggttgg | 6060 |
| actcaagacg | atagttaccg | gataaggcgc | agcggtcggg | ctgaacgggg | ggttcgtgca | 6120 |
| cacagcccag | cttgagcgca | acgacctaca | ccgaactgag | atacctacag | cgtgagctat | 6180 |
| gagaaagcgc | cacgcttccc | gaaggagaaa | aggcggacag | gtatccggta | agcggcaggg | 6240 |
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| ctgtcgggtt | tcgccacctc | tgacttgagc | gtcgattttt | gtgatgctcg | tcaggggggc | 6360 |
| ggagcctatg | gaaaaacgcc | agcaacgcgg | ccttttttacg | gttcctggcc | ttttgctggc | 6420 |
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| cgtctccggg | agctgcatgt | gtcagaggtt | ttcaccgtca | tcaccgaaac | gcgcgaggca | 6840 |
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| catgttaagg | gcggtttttt | cctgtttggt | cacttgatgc | ctccgtgtaa | gggggaattt | 7020 |
| ctgttcatgg | gggtaatgat | accgatgaaa | cgagagagga | tgtcacgat | acgggttact | 7080 |
| gatgatgaac | atgcccggtt | actggaacgt | tgtgagggtg | aacaactggc | ggtatggatg | 7140 |
| cggcgggacc | agagaaaaat | cactcagggt | caatgccagc | gcttcgttaa | tacagatgta | 7200 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Arg | Ala | Leu | Leu | Gln | Thr | Leu | Gly | Asn | Leu | Gly | Tyr | Arg | Ala | Ser | Ala | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Lys | Lys | Ala | Gln | Ile | Cys | Gln | Lys | Gln | Val | Lys | Tyr | Leu | Gly | Tyr | Leu | | |
| | | | 260 | | | | | 265 | | | | | | 270 | | | |
| Leu | Lys | Glu | Gly | Gln | Arg | Trp | Leu | Thr | Glu | Ala | Arg | Lys | Glu | Thr | Val | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Met | Gly | Gln | Pro | Thr | Pro | Lys | Thr | Pro | Arg | Gln | Leu | Arg | Glu | Phe | Leu | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Gly | Thr | Ala | Gly | Phe | Cys | Arg | Leu | Trp | Ile | Pro | Gly | Phe | Ala | Glu | Met | | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | | |
| Ala | Ala | Pro | Leu | Tyr | Pro | Leu | Thr | Lys | Thr | Gly | Thr | Leu | Phe | Asn | Trp | | |
| | | | | 325 | | | | | | 330 | | | | | 335 | | |
| Gly | Pro | Asp | Gln | Gln | Lys | Ala | Tyr | Gln | Glu | Ile | Lys | Gln | Ala | Leu | Leu | | |
| | | 340 | | | | | | 345 | | | | | | 350 | | | |
| Thr | Ala | Pro | Ala | Leu | Gly | Leu | Pro | Asp | Leu | Thr | Lys | Pro | Phe | Glu | Leu | | |
| | | 355 | | | | | 360 | | | | | 365 | | | | | |
| Phe | Val | Asp | Glu | Lys | Gln | Gly | Tyr | Ala | Lys | Gly | Val | Leu | Thr | Gln | Lys | | |
| | 370 | | | | | 375 | | | | | 380 | | | | | | |
| Leu | Gly | Pro | Trp | Arg | Arg | Pro | Val | Ala | Tyr | Leu | Ser | Lys | Lys | Leu | Asp | | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | | |
| Pro | Val | Ala | Ala | Gly | Trp | Pro | Pro | Cys | Leu | Arg | Met | Val | Ala | Ala | Ile | | |
| | | | | 405 | | | | | 410 | | | | | | 415 | | |
| Ala | Val | Leu | Thr | Lys | Asp | Ala | Gly | Lys | Leu | Thr | Met | Gly | Gln | Pro | Leu | | |
| | | 420 | | | | | | 425 | | | | | 430 | | | | |
| Val | Ile | Leu | Ala | Pro | His | Ala | Val | Glu | Ala | Leu | Val | Lys | Gln | Pro | Pro | | |
| | 435 | | | | | | 440 | | | | | 445 | | | | | |
| Asp | Arg | Trp | Leu | Ser | Asn | Ala | Arg | Met | Thr | His | Tyr | Gln | Ala | Leu | Leu | | |
| | 450 | | | | | 455 | | | | | 460 | | | | | | |
| Leu | Asp | Thr | Asp | Arg | Val | Gln | Phe | Gly | Pro | Val | Val | Ala | Leu | Asn | Pro | | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | | |
| Ala | Thr | Leu | Leu | Pro | Leu | Pro | Glu | Glu | Gly | Leu | Gln | His | Asn | Cys | Leu | | |
| | | | | 485 | | | | | 490 | | | | | | 495 | | |
| Asp | Ile | Leu | Ala | Glu | Ala | His | Gly | Thr | Arg | Pro | Asp | Leu | Thr | Asp | Gln | | |
| | | 500 | | | | | | 505 | | | | | | 510 | | | |
| Pro | Leu | Pro | Asp | Ala | Asp | His | Thr | Trp | Tyr | Thr | Asn | Gly | Ser | Ser | Leu | | |
| | | 515 | | | | | 520 | | | | | | 525 | | | | |
| Leu | Gln | Glu | Gly | Gln | Arg | Lys | Ala | Gly | Ala | Ala | Val | Thr | Thr | Glu | Thr | | |
| | 530 | | | | | 535 | | | | | 540 | | | | | | |
| Glu | Val | Ile | Trp | Ala | Lys | Ala | Leu | Pro | Ala | Gly | Thr | Ser | Ala | Gln | Arg | | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | | |
| Ala | Glu | Leu | Ile | Ala | Leu | Thr | Gln | Ala | Leu | Lys | Met | Ala | Glu | Gly | Lys | | |
| | | | | 565 | | | | | 570 | | | | | | 575 | | |
| Lys | Leu | Asn | Val | Tyr | Thr | Asp | Ser | Arg | Tyr | Ala | Phe | Ala | Thr | Ala | His | | |
| | | 580 | | | | | | 585 | | | | | 590 | | | | |
| Ile | His | Gly | Glu | Ile | Tyr | Arg | Arg | Arg | Gly | Leu | Leu | Thr | Ser | Glu | Gly | | |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 595 | | 600 | | 605 | | | | | | | | | | |
| Lys | Glu | Ile | Lys | Asn | Lys | Asp | Glu | Ile | Leu | Ala | Leu | Leu | Lys | Ala | Leu |
| | 610 | | | | | 615 | | | | | 620 | | | | |
| Phe | Leu | Pro | Lys | Arg | Leu | Ser | Ile | Ile | His | Cys | Pro | Gly | His | Gln | Lys |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 |
| Gly | His | Ser | Ala | Glu | Ala | Arg | Gly | Asn | Arg | Met | Ala | Asp | Gln | Ala | Ala |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| Arg | Lys | Ala | Ala | Ile | Thr | Glu | Thr | Pro | Asp | Thr | Ser | Thr | Leu | Leu | |
| | | | 660 | | | | | 665 | | | | | 670 | | |